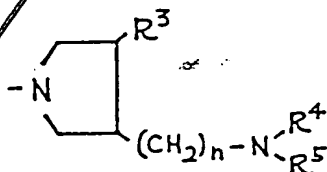


(I)

wherein R indicates a hydrogen atom or lower alkyl group, R¹ indicates a lower alkyl group, R² indicates a hydrogen atom, amino group or nitro group, X indicates a halogen atom, and Z indicates a halogen atom, piperazino group, N-methylpiperazino group, 3-methylpiperazino group, 3-hydroxypyrrolidino group, or pyrrolidino group of the following formula,



where, n is 0 or 1, R³ indicates a hydrogen atom or lower alkyl group, R⁴ indicates a hydrogen atom, lower alkyl group, [or] hydroxy-substituted lower alkyl group or halogenated lower alkyl group and R⁵ indicates a hydrogen atom, lower alkyl group, acyl group or alkoxycarbonyl group, the hydrates or the pharmaceutically acceptable acid addition or alkali salts thereof.

8. 8-Alkoxyquinolonecarboxylic acid derivative as claimed in claim 1, wherein said derivative is 10 cyclopropyl-6-fluoro-1,4-dihydro-8-methoxy-4-oxo-7-(10 piperazinyl)-3-quinolinecarboxylic acid.

³
~~9.~~ 8-Alkoxyquinolonecarboxylic acid derivative as claimed in Claim 1, wherein said derivative is 1[⊖] cyclopropyl-6-fluoro-1,4-dihydro-8-methoxy-7-(4-methyl[⊖] 1-piperazinyl)-4-oxo-3-quinolinecarboxylic acid.

⁴
~~10.~~ 8-Alkoxyquinolonecarboxylic acid derivative as claimed in Claim 1, wherein said derivative is 1[⊖] cyclopropyl-6-fluoro-1,4-dihydro-8-methoxy-7-(3-methyl[⊖] 1-piperazinyl)-4-oxo-3-quinolinecarboxylic acid.

~~11.~~ 8-Alkoxyquinolonecarboxylic acid derivative as claimed in Claim 1, wherein said derivative is 7-(3-amino-1-pyrrolidinyl)-1-cyclopropyl-6-fluoro-1,4-dihydro-8-methoxy-4-oxo-3-quinolinecarboxylic acid.

⁵
~~12.~~ 8-Alkoxyquinolonecarboxylic acid derivative as claimed in Claim 1, wherein said derivative is 7[⊖] (cis-3-amino-4-methyl-1-pyrrolidinyl)-1-cyclopropyl-6ⁿ fluoro-1,4-dihydro-8-methoxy-4-oxo-3ⁿ quinolinecarboxylic acid.

⁶
~~13.~~ 8-Alkoxyquinolonecarboxylic acid derivative as claimed in Claim 1, wherein said derivative is 7[⊖] (trans-3-amino-4-methyl-1-pyrrolidinyl)-1-cyclopropyl[⊖] 6-fluoro-1,4-dihydro-8-methoxy-4-oxo-3[⊖] quinolinecarboxylic acid.

⁷
~~14.~~ 8-Alkoxyquinolonecarboxylic acid derivative as claimed in Claim 1, wherein said derivative is 7-(3-aminomethyl-1-pyrrolidinyl)-1-cyclopropyl-6-fluoro-1,4-dihydro-8-methoxy-4-oxo-3-quinolinecarboxylic acid.

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15. 8-Alkoxyquinolonecarboxylic acid derivative as claimed in Claim 1, wherein said derivative is 1-cyclopropyl-6-fluoro-1,4-dihydro-8-methoxy-7-(3-methylaminomethyl-1-pyrrolidinyl)-4-oxo-3-quinolinecarboxylic acid.

16. 8-Alkoxyquinolonecarboxylic acid derivative as claimed in Claim 1, wherein said derivative is 1-cyclopropyl-7-(3-ethylaminomethyl-1-pyrrolidinyl)-6-fluoro-1,4-dihydro-8-methoxy-4-oxo-3-quinolinecarboxylic acid.

17. 8-Alkoxyquinolonecarboxylic acid derivative as claimed in Claim 1, wherein said derivative is 5-amino-1-cyclopropyl-6-fluoro-1,4-dihydro-8-methoxy-4-oxo-7-(1-piperazinyl)-3-quinolinecarboxylic acid.

18. 8-Alkoxyquinolonecarboxylic acid derivative as claimed in Claim 1, wherein said derivative is 5-amino-7-(3-amino-1-pyrrolidinyl)-1-cyclopropyl-6-fluoro-1,4-dihydro-8-methoxy-4-oxo-3-quinolinecarboxylic acid.

19. 8-Alkoxyquinolonecarboxylic acid derivative as claimed in Claim 1, wherein said derivative is 7-(3-amino-4-methyl-1-pyrrolidinyl)-1-cyclopropyl-6-fluoro-1,4-dihydro-8-methoxy-4-oxo-3-quinolinecarboxylic acid.

20. 8-Alkoxyquinolonecarboxylic acid derivative as claimed in Claim 1, wherein said derivative is 1-cyclopropyl-6-fluoro-1,4-dihydro-8-ethoxy-4-oxo-7-(1-piperazinyl)-3-quinolinecarboxylic acid.

END

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